**Data Assignment**

***EVERY student must turn in the following:***  
1. THREE different Excel Charts representing your (ONE) data set. (must be in color or colored)  
2. Site your sources for your numbers and information. ([Link for Easy Website Citation](http://www.easybib.com/))  
3. Evaluate which chart represents the data most clearly.  "(This type of graph/chart) best represents the data because (fill in why)."  
4. Write a paragraph explaining the trend(s) that the chart/graph shows.  
5. Write three questions that someone else could answer about your data/graph.

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| **Rules:** \*Data must be number based. \*Sample set must be controlled (one factor analyzed) and qualified (tell me what is being analyzed). \*Create your own Data Chart (do NOT copy and paste from the internet) \*Graph must be made by the student on Excel \*DO NOT COPY AND PASTE any graphs from the internet.   \*Follow **ALL** school rules while using technology.  **Ideas:** Sport Scores (of any type).  Extreme weather changes of certain cities.  UFO sitings.  Concert attendance     (example:  compare five different bands) Hunting Statistics Reality TV vs. Primetime Eye Color comparison Gas Prices Over Time Population and Elevation Population and Resource usage | **Things to consider** 1. Follow the laws of graphing.     (Label the Axis and Graph, Space numbers/data evenly) 2. Do not jump to faulty conclusions.  **Timeline.** IN CLASS Day One: Project Assigned. IN CLASS Day Two: Collect Data, put in a table.  HOMEWORK Day Three and Four: Homework, continue data collection, put in a table. IN CLASS Day FIVE (work in Library): Come with data in a table.  **Creating your chart in EXCEL Instructions:** 1. Type your information on an Excel worksheet beginning in cell 1A. Make your chart no bigger than 6 rows by 6 columns.   2. On the tab at the bottom of the worksheet, change the tab name from “Sheet 1” to “Table” by double-clicking on the tab and typing.   3. Transfer your typed information to a new work sheet by doing the following:      \*Select all your information (by placing your cursor in Cell 1A selecting CTRL+A)       · Copy the information (CTRL + C)       · Click on the Sheet 2 tab at the bottom of the sheet to bring up sheet 2       · Click in Cell A1 and paste (CTRL +V)   4. Select the information from A1 to D6 (by clicking in cell A1 and dragging), and insert a column chart   5. Move the chart, so it does not cover up the data in the table. Drag the chart to the right of the data   6. Select a different chart style if you want.   7. Insert a title above the chart       · Click on the edge of the chart       · Click on the “Layout” tab, find the “Labels”         group, and click on Chart Title       · Select the chart title “Above Chart”       · Type your chart title “Column Chart” in the function bar (default) and hit enter   8. On the tab at the bottom of the worksheet, change the name from “Sheet 2” to “Column”   9. Repeat steps 3-7, inserting a line chart on Sheet 3.   10. Insert an additional worksheet by clicking on the “Insert worksheet” icon at the side of the worksheet tabs, then repeat steps 3-7, inserting another type of chart on Sheet 4.   11. Save your workbook as an “Excel 97-2003 Workbook” file named “first name last name” Ex. John Doe.   12. Answer the questions about your charts on a piece of paper. |

Created by Mindy Timothy, Science 8, Albion Middle School, 2012.